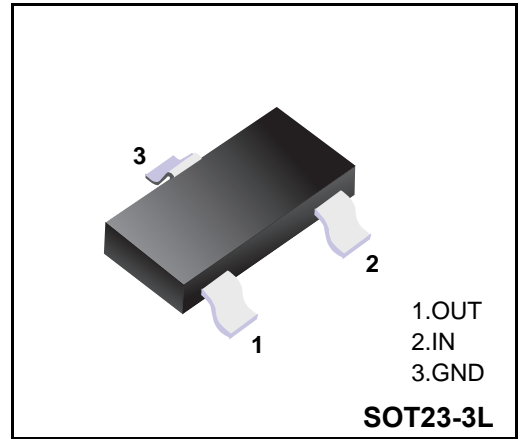


3-Terminal Voltage Regulator

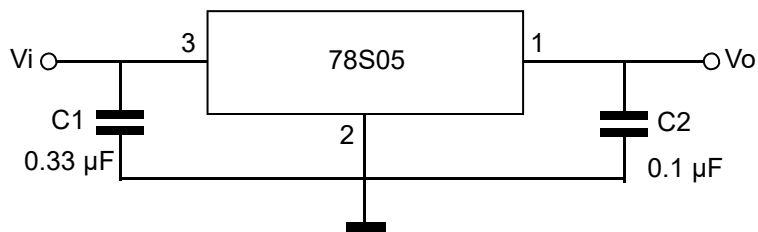
Features

- Input voltage: up to 30V
- Output: 5V
- Output current up to 200 mA, internal thermal
- Overload protection and short-circuit current limiting.



Absolute Maximum Ratings (Ta=25°C)

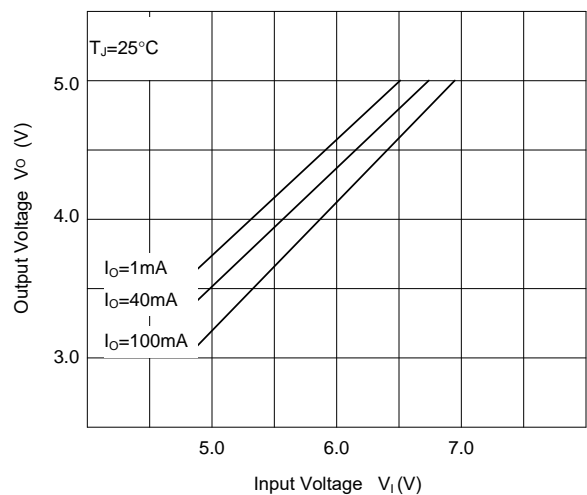
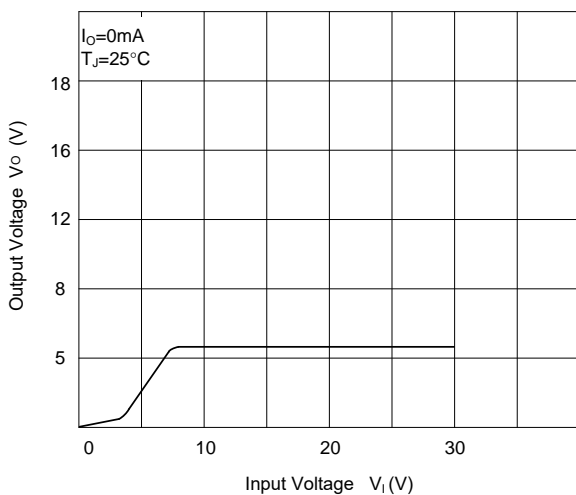
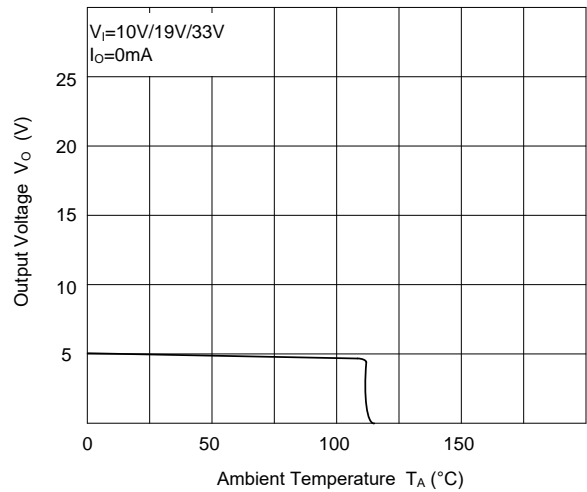
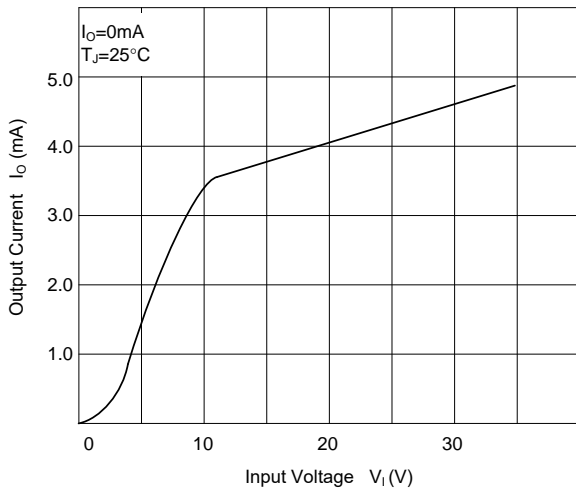
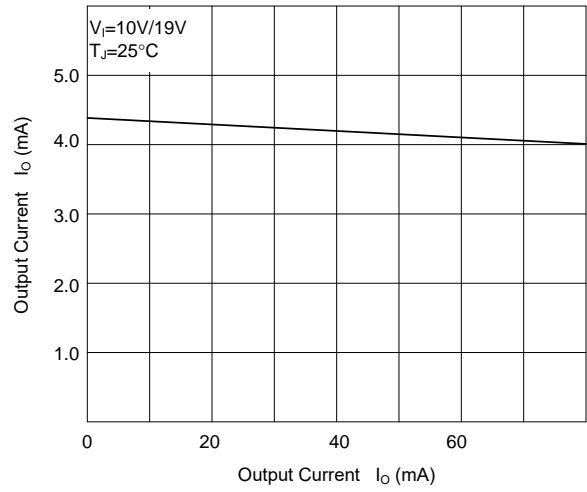
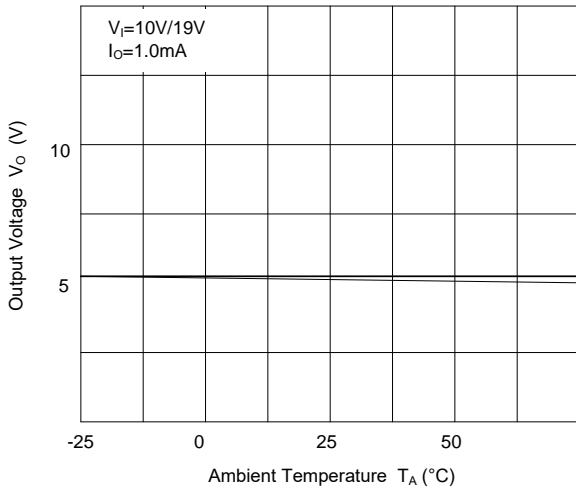
Parameter	Symbol	Value	Unit
Input Voltage	V_I	30	V
Output Current	I_O	200	mA
Maximum Power Dissipation	P_D	400	mW
Junction Temperature	T_J	150	°C
Operating Temperature Range	T_{OPR}	-40 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C



Electrical Characteristics(TA = 25 °C unless otherwise specified)

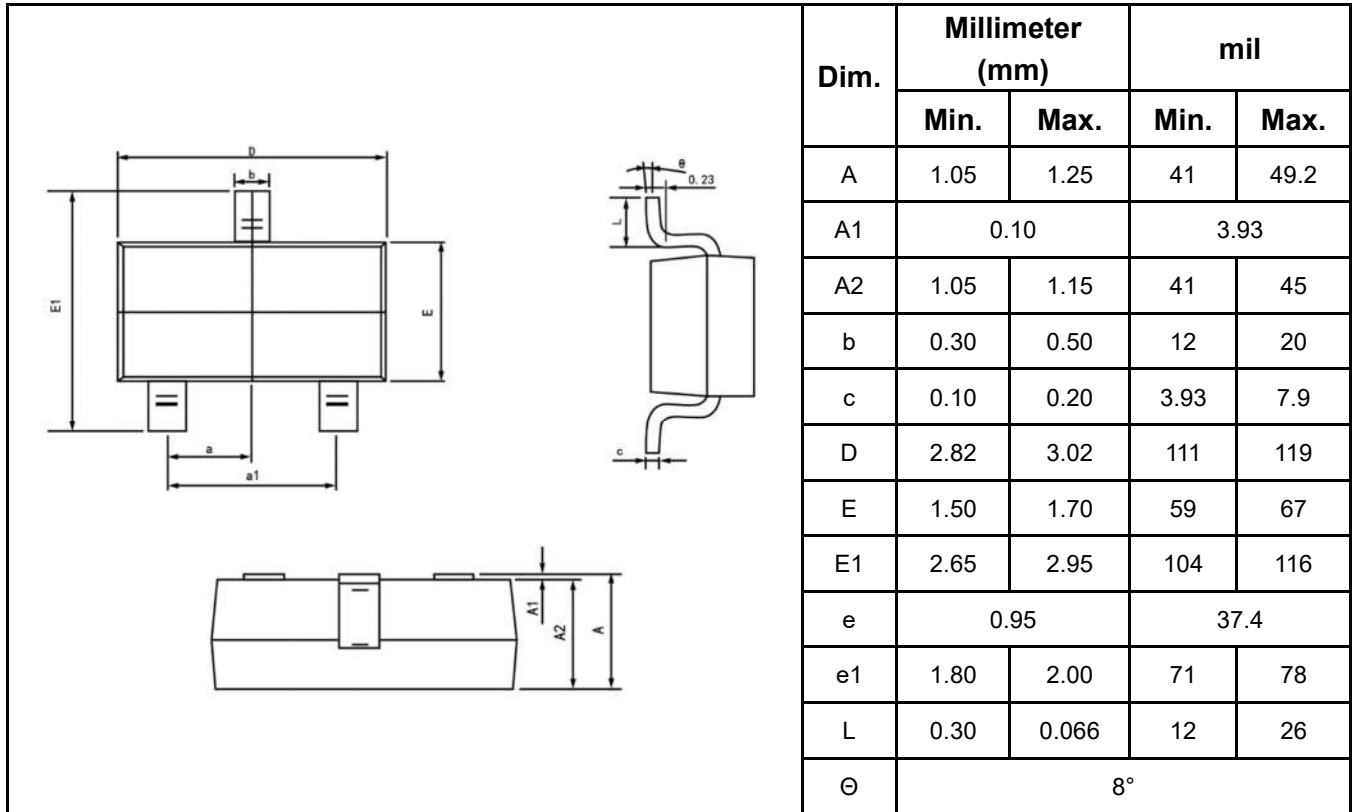
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Output Voltage	V _O	T _J =25°C	4.80	5.0	5.2	V
		I _O =1mA to 40mA, V _I =7V to 20V	4.75	5.0	5.25	V
		I _O =1mA to 70mA,V _I =10V	4.75	5.0	5.25	V
Line Regulation	ΔV _O	V _I =7V to 20V, T _J =25°C	--	8	150	mV
		V _I =8V to 20V, T _J =25°C		6	100	mV
Load Regulation	ΔV _O	I _O =1mA to 100mA ,T _J =25°C	--	11	60	mV
		I _O =1mA to 40 mA, T _J =25°C		5	30	mV
Ripple Rejection	RR	V _I =8V to 20V, f=120Hz, T _J =25°C	40	49	--	dB
Dropout Voltage	V _D	T _J =25°C	--	1.7	--	V
Quiescent Current	I _Q		--	2.0	5.5	mA
Quiescent Current Change	ΔI _Q	V _I =8V to 20V	--	--	1.5	mA
		I _O =1mA to 40mA	--	--	0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100kHz, T _J =25°C	--	40	--	μV

Typical Characteristics

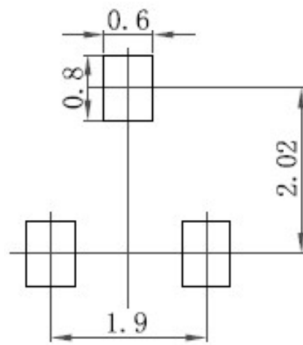


Package Dimensions

SOT23-3L



The recommended mounting pad size



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